



DELTA 

Precision Pallet Labeling Fully Programmable

- Applies labels on SIDE and FRONT/REAR faces of the pallet with 1 pallet stop
- Fully programmable label position via PLC I/O and Ethernet (up to unlimited positions)
- Very short interpallet space required: only 300 mm (360 mm with scanner)
- Auto-learning setup: Automatic Pallet Corner Detection + Manual & Assisted Learning
- Closed-loop motor control with tracking error and obstacle detection for operator safety
- Master / Slave printer support to avoid production stops during consumables change
- Compatible with EIDOS PTS printers and integrable with other printer brands

 **EIDOS**

TECHNICAL SPECIFICATIONS

APPLICATION	
Label application	On SIDE and on FRONT/REAR faces of squared pallets, in a programmable position Round/cylindrical surfaces are not supported – the pallet must be stopped during application
Label positioning	Fully programmable via PLC I/O and Ethernet communication Up to 4 positions via external PLC (selecting .PAT files) Unlimited positions via Ethernet ^Y string command
Setup procedures	Automatic Pallet Corner Detection – pad auto-calculates pallet corner coordinates Manual Learning motors deactivated, pad moved by hand to the target position Assisted Learning – position set through the EIDOS Touch Panel
Programmable parameters	Label application time • Pad force on FRONT • Pad force on SIDE
LABELS	
Label size (Xe x Ye)	From 50 x 50 mm up to 210 x 210 mm – standard application A5 format (150 x 210 mm)
Flat pad series	57TZH105-NN (other pad sizes available on request)
MECHANICAL	
Weight	21 Kg (applicator only)
Positioning	Movements on horizontal plane parallel to the floor – vertical movements not executed Mountable on the TOP or on the LOWER side of the printer – closed-loop servomotor control
POWER & PNEUMATICS	
Power supply	48 Vdc – 320 W required
Pneumatic supply	6 bar – compressed air hose external diameter 8 mm Air consumption: 5 – 6 liters per cycle – peak 550 l/min @ 6 bar
CONTROLLER / HMI	
Display	7" PoE capacitive color touchscreen with magnetic mounting kit – multilingual online help
Diagnostics	Visual diagnostics on HMI: I/O, motor drives, pad movement, test movement
INTERFACES	
Ethernet	APPLY command, status request and error reset – PoE switch required to supply the Touch Panel
Digital I/O	HOME position • moving for label application • Ready (no error)
MASTER / SLAVE PRINTERS	
Printer redundancy	The DELTA-V can take the label from a Master or a Slave printer – selection by digital input If the Master goes in error, application continues from the Slave (no production stop) Master and Slave printer positions are learned during installation
SAFETY	
CE compliance	Fully safe CE-marked system (with PTS printer) – Machinery Directive 2006/42/CE – closed-loop obstacle detection stops the applicator on contact
Mechanical protection	Pad and airstream tube rotation to avoid finger pinching during transfer to/from printer
ENVIRONMENTAL	
Operating conditions	Temperature 5 – 40 °C (storage –20 to +50 °C) • Humidity 10 – 60% non-condensing
Protection & limits	DELTA-V IP20 • Touch Panel IP20 (IP55 as option) • Not suitable for use in explosive environments (ATEX)

Cycle performance comparison

The maximum cycle time values include 1.5 s of printing time. Conditions: A5 label (150 x 210 mm).

APPLICATOR	Cycle time on SIDE	Cycle time on FRONT	Pallet stops FRONT + SIDE	Interpallet space Min. required
ROTOR SHORT	2.5 s	4 s	2	760 mm
ROTOR LONG	3.5 s	5.5 s	2	1030 mm
3-SIDES	4 s	7.5 s	2	500 mm
DELTA-V	4 s	6 s	700	300 mm (360 mm with scanner)

